

RED EOI R&D Plan

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PHASES OF INVESTIGATION

BOYD COMMITTEE DEFINING - POSSIBLE PI ORGANIZATIONS

PI TASKS & REQUIREMENTS

PI TEMPORAL VIEWING REQUIREMENTS

INVESTIGATE EQUIPMENT REQUIREMENTS & OPTIONS -

CONSIDERING INDIVIDUAL PI TASKS

CONSIDERING CONCEPT I AND II

CONSIDERING PLAN A AND B

RECOMMENDATIONS OF R&D PROGRAM BASED UPON ABOVE

DECLASS REVIEW by NIMA/DOD

INVESTIGATION SCOPE

EOI EXPLOITATION SYSTEM

Based primarily on PI Requirements

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OTHER RELEVANT FACTORS NOT CONSIDERED

- I. Managerial Structure of EOI Facility
- II. Target Reprogramming Cycle or Mechanism
- III. Re-tasking of Target Coverage
- IV. Image Re-production Requirements & Procedures
- V. Support Function Requirements

EOI EXPLOITATION - FUNCTIONS

I. INITIAL SCAN

- a. TARGET COVERAGE & QUALITY
- b. TARGET CHANGE
- c. WARNING INDICATIONS

(1) CRISIS ANALYSIS

II. CURRENT INTELLIGENCE EXPLOITATION

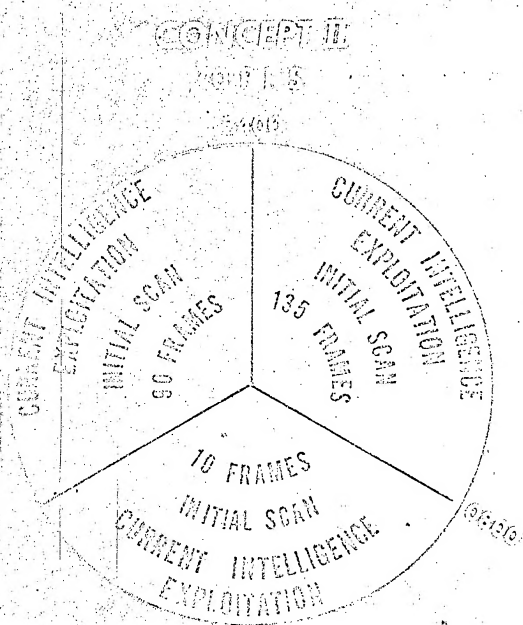
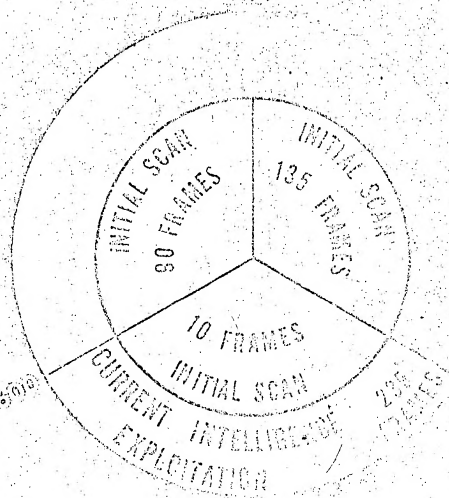
III. DETAILED INTELLIGENCE EXPLOITATION

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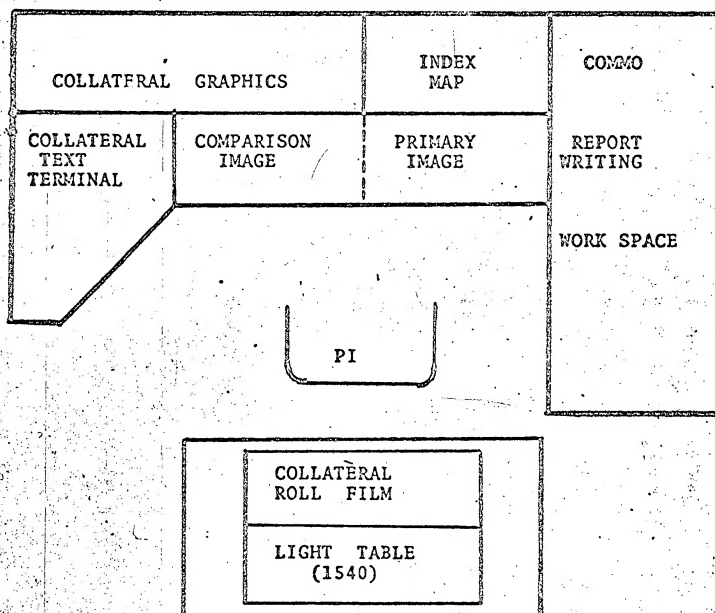
INITIAL SCAN P.I. FUNCTIONS  
(STATION REQUIREMENTS)

1. PRE-ACQUISITION PREPARATION
2. SCAN PRIMARY EOI IMAGE
3. COMPARE IT WITH PREVIOUS IMAGERY
4. LOCATE IMAGE ON A MAP
5. REVIEW TARGET COLLATERAL GRAPHICS
6. REVIEW TARGET COLLATERAL TEXT
7. REPORT
8. COMMUNICATE

ALTERNATIVE PLANS FOR EQUIPPING  
THE INITIAL SCAN P.I. STATION

PLAN A	PLAN B
<p><u>CHARACTERISTICS:</u></p> <p>HARD-COPY EOI IMAGERY</p> <p>USE EXISTING INVENTORY AND/OR TECHNOLOGY ON ALL FUNCTIONS</p> <p>MINIMUM R&amp;D</p>	<p><u>VIDEO EOI DISPLAYS</u></p> <p>USE ADVANCED TECHNOLOGY WHERE MOST EFFICIENT</p> <p>EXTENSIVE R&amp;D</p>
<p><u>TRADE-OFFS:</u></p> <p>KNOWN TECHNOLOGY</p> <p>LEAST COST</p> <p>MORE MANPOWER REQUIRED - DAILY MANUAL UPDATING OF TARGET PACKETS</p> <p>POORER TIME RESPONSE FOR PI FUNCTIONS AND DISTRI- BUTION OF INFORMATION</p> <p>POOR EXPANSION POTENTIAL FOR INCREASED IMAGERY ACQUISITION</p>	<p>TECHNOLOGY RISKS</p> <p>HIGH INITIAL COST</p> <p>LOWER MANPOWER REQUIREMENTS</p> <p>AUTOMATED SYSTEM DESIGN PARTICULARLY FOR EOI SYSTEM</p> <p>GOOD EXPANSION POTENTIAL</p>

PLAN A - FUNCTION DIAGRAM



PLAN A

INITIAL SCAN P.I. STATION - PLAN A  
PHILOSOPHY

PRIMARY IMAGE DISPLAY

FUNCTION: TO SCAN NEW EOI IMAGE

EQUIPMENT OPTIONS:

1. LIGHT TABLES

ADVANTAGES: COULD POSSIBLY USE EXISTING EQUIPMENT

PROBLEMS: NEW DESIGN (TABLE AND OPTICS) REQUIRED IF  
FORMAT LARGER THAN 9.0"

2. REAR PROJECTION VIEWER

ADVANTAGES: GROUP VIEWING AND SIMPLE TECHNOLOGY

PROBLEMS: NON-STEREO; LARGE SIZE FOR FORMATS OVER 6.6"

R&D REQUIREMENTS:

1. IF LIGHT TABLE --

a. FORMAT SMALLER THAN 9 1/2" = NO R&D

b. FORMAT LARGER THAN 9 1/2" = DEVELOPMENT OF LONG  
RHOMBOIDS FOR STEREO

2. IF REAR PROJECTION VIEWER --

a. MODEST INVESTMENT FOR MONOVUEING

b. HIGH INVESTMENT FOR STEREO



INITIAL SCAN P.I. STATION - PLAN ACOLLATERAL IMAGE DISPLAY

FUNCTION - TO COMPARE NEW IMAGE WITH PREVIOUS EOI,  FOR TARGET CHANGE

STAT

EQUIPMENT OPTIONS -1. LIGHT TABLE

ADVANTAGES: EXISTING EQUIPMENT SUITABLE FOR  AND SMALL FORMAT EOI

STAT

PROBLEMS: NONE IF CHIPS PROVIDED FOR COLLATERAL IMAGERY.

2. REAR PROJECTION VIEWER

ADVANTAGES: GROUP VIEWING AND COMPARISON

PROBLEMS: OPTICAL PROJECTION & DISPLAY OF DIFFERENT FORMAT AND DIFFERENT QUALITY IMAGES ON A COMMON PROJECTOR; HANDLING OF MULTI-FORMAT FILMS;

3. HYBRID - LIGHT TABLE FOR  AND SIMPLE PROJECTOR FOR EOI

STAT

R&D REQUIREMENTS1. IF LIGHT TABLE -

- a. FORMAT SMALLER THAN 9 1/2" = NO R&D ON TABLE OR OPTICS
- b. FORMAT LARGER THAN 9 1/2" = NEW RHOMBOIDS

## 2. IF REAR PROJECTION VIEWER--DEVELOPMENT OF A "VERSATILE" PROJECTOR

## 3. COLLATERAL HANDLING SYSTEM FOR INFO OVER AND ABOVE TARGET PACKET

INITIAL SCAN P.I. STATION - PLAN A

INDEX MAP DISPLAY

FUNCTION - TO LOCATE EOI GROUND COVERAGE, TARGET POSITIONS, AND FLIGHT PATH ON A MAP

EQUIPMENT OPTIONS -

1. PRE-ANNOTATED PAPER MAP ON A BOARD

ADVANTAGES: PERMITS PENCIL NOTES BY THE P.I. POSSIBLE USE OF PLOTTER

PROBLEMS: STORAGE, RETRIEVAL & HANDLING OF MANY LARGE MAP SHEETS

2. MICROFORM MAP CHIP PROJECTOR

ADVANTAGES: PERMITS STORAGE, RETRIEVAL & DISPLAY OF ANY MAP IN REAL TIME;

PROBLEMS: REQUIRES MANUAL ANNOTATION OF GROUND COVERAGE OF EACH EOI IMAGE

3. PROJECTED MAP DISPLAY WITH AUTOMATED OVERLAYS

ADVANTAGES: MANUAL HANDLING ELIMINATED

PROBLEMS: DEVELOPMENT OF NEW EQUIPMENT

R&D REQUIREMENTS -

1. IF PRE-ANNOTATED PAPER MAP SHEETS--DEVELOPMENT OF A SUITABLE MOUNTING BOARD;
2. IF MICROFORM MAP CHIP PROJECTOR--DEVELOPMENT OF AN ANNOTATION PROCEDURE; EQUIPMENT MODIFICATIONS AS A FUNCTION OF P.I. REQUIREMENTS
3. EQUIPMENT DEVELOPMENT AS RELATES TO OPTION 3.

TIME PLOT

INITIAL SCAN P.I. STATION - PLAN A

COLLATERAL GRAPHICS DISPLAY

FUNCTION - TO REVIEW TARGET GRAPHICS (P.I. KEYS, LINE DRAWINGS, GROUND PHOTOS, ETC.)

EQUIPMENT OPTIONS -

1. PRE-ASSEMBLED HARD-COPY TARGET PACKETS

ADVANTAGES: USE OF CURRENT KNOWN PROCEDURES; NEW GRAPHICS EASILY ADDED TO THE PACKET

PROBLEMS: STORAGE, RETRIEVAL, UP-DATING AND DISTRIBUTION SYSTEM IS MANUAL, TIME-CONSUMING; P.I. REVIEW OF MATERIALS IS CUMBERSOME

2. MICROFORM GRAPHICS CHIP PROJECTOR

ADVANTAGES: PERMITS EFFECTIVE STORAGE, AUTOMATED RETRIEVAL AND CONTIGUOUS DISPLAY OF TARGET GRAPHICS IN REAL TIME;

PROBLEMS: UP-DATING PROCEDURE; CONVERSION OF EXISTING FILES

R&D REQUIREMENTS -

1. IF HARD-COPY TARGET PACKETS - NO R&D
2. IF MICROFORM GRAPHICS CHIP PROJECTOR - PROCUREMENT, MODIFICATION, OR DEVELOPMENT OF PROJECTOR

INITIAL SCAN P.I. STATION - PLAN A

COLLATERAL TEXT DISPLAY

FUNCTION - TO REVIEW TARGET-RELATED COLLATERAL INFORMATION

EQUIPMENT OPTIONS -

1. DATA-BASE TERMINALS WITH IIS (EXPANDED)

ADVANTAGES: UTILIZATION OF EXISTING SYSTEM

PROBLEMS: CONTENT AND RESPONSE TIME MUST BE EXPANDED

2. #(1) PLUS REPORT MICROFICHE READERS

ADVANTAGES: PERMITS RAPID READING OF COLLATERAL INTELLIGENCE REPORTS

PROBLEMS: ALL REPORTS NOT ON MICROFICHE; NON-STANDARDIZATION OF MICROFICHE FORMAT; NON-STANDARDIZATION OF MICROFICHE READERS

R&D REQUIREMENTS: (OTHER THAN EXPANDED IIS)

(FOR PLAN A, THIS FUNCTION REQUIRES 'PRODUCT IMPROVEMENT' RATHER THAN 'R&D')

*Bill*

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REPORTING CONCEPT

CONCEPT I

INITIAL SCAN (SWING SHIFT & GRAVEYARD SHIFT)

- a. SUMMARY REPORT AT END OF SHIFT
- b. WARNINGS INDICATIONS CABLES (ITEMS OF INTELLIGENCE SIGNIFICANCE)  
(10 MINUTES PER TARGET)

CURRENT INTELLIGENCE EXPLOITATION (DAY SHIFT)

- a. SAME AS ABOVE (LOW ACTIVITY)
- b. SAME AS ABOVE
- c. ANALYSIS & READOUT OF EACH TARGET  
(TO MAINTAIN DATA BASE)  
(235 TARGETS IN 8 HOURS)

CONCEPT II

INITIAL SCAN & CURRENT INTELLIGENCE EXPLOITATION  
(AROUND THE CLOCK)

- a. SUMMARY REPORT AT END OF EACH SHIFT
- b. WARNING INDICATIONS CABLES
- c. ANALYSIS & READOUT OF EACH TARGET  
(30 MINUTES PER TARGET)

INITIAL SCAN P.I. STATION - PLAN A

REPORTING EQUIPMENT

FUNCTION - INTERNAL REPORTING TO SUPERVISOR

- a. TARGET COVERAGE
- b. IMAGE INTERPRETABILITY
- c. TARGET CHANGE FROM "NORMS"
- d. ALARM DETECTIONS

EQUIPMENT OPTIONS -

1. PRE-FORMATTED PAPER REPORT FORMS (MULTIPLE-CHOICE)

ADVANTAGES: RELATIVELY ERROR-FREE; INTELLIGIBLE; PERMANENT  
PRINTED RECORD; SIMPLE TO COMPLETE;

PROBLEMS: NONE FORESEEN

2. AUTOMATED INITIAL REPORT SYSTEMS

- a. MULTIPLE-CHOICE KEYBOARD INPUT TO A CENTRAL DISPLAY  
CONSOLE.
- b. TAPE-RECORDED VOICE REPORT TO SUPERVISOR

R&D REQUIREMENTS -

- 1. IF PAPER REPORT FORMS = NO R&D
- 2. IF ONE OF THE AUTOMATED SYSTEMS = DEVELOPMENT OF THE  
APPROPRIATE INPUT/OUTPUT DEVICES

INITIAL SCAN P.I. STATION - PLAN A

COMMUNICATIONS EQUIPMENT

FUNCTION - TO RECEIVE ASSIGNMENTS, TO TALK WITH SUPERVISOR, TO CONSULT WITH SPECIALISTS, ETC.

EQUIPMENT OPTIONS -

1. NO EQUIPMENT IN P.I. STATION

ADVANTAGES: NO INTERRUPTIONS

PROBLEMS: TIME TO COMMUNICATE WITH SUPERVISOR, SPECIALIST, ETC. MAY BE IMPORTANT

2. SECURE TELEPHONE OR INTERCON

ADVANTAGES: TIMELINESS & ACCESSIBILITY

R&D REQUIREMENTS -

SIMPLE AUDIO EQUIPMENT = NO R&D

INITIAL SCAN P.I. STATION - PLAN A

EOI PI STATION SYSTEM DEFINITION

PURPOSE: TO DEVELOP CANDIDATE PI STATION CONFIGURATIONS FOR CONCEPTS I AND II CONSIDERING VARIOUS EQUIPMENT OPTIONS DESCRIBED.

AREAS OF STUDY:

SYSTEMATIC WORK FLOW ANALYSIS

HUMAN FACTOR CONSIDERATIONS

PHYSIOLOGICAL ASPECTS

FATIGUE

EFFECTIVE USE OF COLLATERAL

EQUIPMENT FEATURES

CANDIDATE PI STATION CONFIGURATIONS

COST AND PERSONNEL TRADE-OFFS

GROWTH POTENTIAL

IMPLEMENTATION TIME TABLE

OUTPUT:

RECOMMENDATION FOR A PARTICULAR PI STATION CONFIGURATION

TIME TABLE

DEFINITION OF REQUIRED R&D

R&D REQUIREMENTS:

STUDY CONTRACT

FY-71



VALUE OF PROPOSED EFFORT

- o PROVIDES A MEANS TO ASSURE THAT ALL NECESSARY MATTERS ARE CONSIDERED
- o EXAMINES FEASIBLE ALTERNATE APPROACHES ON COMPATIBLE TERMS
- o PRESENTS VALUE/COST OF ALTERNATE APPROACHES
- o ABOVE AS FUNCTION PERSONNEL REQUIREMENTS
- o ASSURES ADEQUATE IDENTIFICATION OF ACTIONS REQUIRED

PI STATION - CONFIGURATION & EQUIPMENT REQUIREMENTS

EQUIPMENT - RESEARCH & DEVELOPMENT

PERSONNEL - SELECTION & TRAINING

PROCEDURES - REVISION OR PREPARATION

SUPPORT FACILITIES - DEFINITION

PLAN A R&D SCHEDULE

	FY-71	FY-72	FY-73	FY-74	FY-75
P.I. STATION DEFINITION					
PRIMARY & COMPARISON IMAGE DISPLAYS					
LIGHT TABLE OPTICS OR REAR PROJECTION VIEWER					
DESIGN PROTOTYPE FAB					
INDEX MAP PROJECTOR					
DESIGN PROTOTYPE FAB					
COLLATERAL GRAPHICS PROJECTOR					
DESIGN PROTOTYPE FAB					
AUTOMATED REPORTING EQUIPMENT					
DESIGN PROTOTYPE FAB					

P R O C U R E M E N T



PLAN B

PURPOSE:

1. TO VIEW EOI IMAGERY ON VIDEO
2. TO AUTOMATE THE ENTIRE PROCESS WHICH SUPPORTS THE  
P.I.

WHY??

WHY VIDEO??

1. TO USE ORIGINAL DIGITAL DATA (VERSUS "SECOND GENERATION" HARD COPY)
2. FOR 'INSTANT' TRANSMISSION OF AN IMAGE TO HIS SUPERVISOR OR TO ANOTHER VIEWER.
3. FOR 'INSTANT' RECALL & DISPLAY OF PAST EOI IMAGERY.
4. TO FACILITATE THE MODIFICATION OF THE IMAGE TO ENHANCE ITS INTERPRETABILITY.
  - CONTRAST
  - EDGE ENHANCEMENT
  - SCALE
  - ROTATION
  - GEOMETRY
5. TO COMBINE THE FOUR SEPARATE EOI IMAGES INTO ONE SCENE.

PROBLEMS OF VIDEO DISPLAYS

1. RESOLUTION & GRAY SCALE?
2. DISPLAY SIZE?
3. STEREO CAPABILITY?
4. IMAGE PERSISTENCE (REFRESH RATE)?
5. HOW TO STORE DIGITAL IMAGERY?

R&D REQUIREMENTS

1. VIDEO DISPLAY FEASIBILITY STUDY.
2. IMAGERY STORAGE STUDY

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WHY AUTOMATION OF SUPPORT FUNCTIONS?

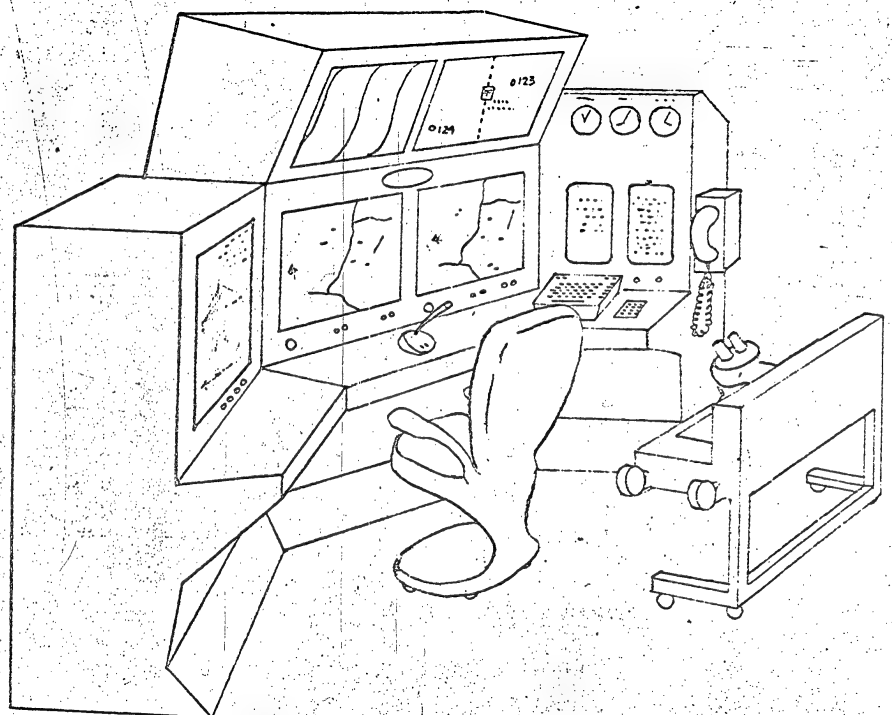
FOR TIMELINESS

FOR FUTURE SYSTEM EXPANSION

AUTOMATED COLLATERAL SYSTEM  
(ASSEMBLY, UPDATE, & DISTRIBUTION OF 'TARGET PACKET'  
MATERIALS)

AUTOMATED REPORTING SYSTEM  
(COMPOSITION, EDITING, APPROVAL, & DISSEMINATION CYCLE)

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INITIAL SCAN P.I. STATION - PLAN B

PRIMARY IMAGE DISPLAY

FUNCTION - TO SCAN NEW EOI IMAGE

EQUIPMENT CANDIDATES:

1. CATHODE RAY TUBE

ADVANTAGES: INSTANT DISPLAY OF COLLATERAL IMAGERY; IMAGE MODIFICATION; USE OF ORIGINAL DIGITAL DATA; IMAGE TRANSMISSION

PROBLEMS: RESOLUTION; GRAY SCALE; SIZE, STEREO; IMAGE PERSISTENCE

2. LIGHT VALVE

ADVANTAGES: LARGE SCREEN DISPLAY

PROBLEMS: RESOLUTION; STEREO

R&D REQUIREMENTS -

1. CRT DISPLAY FEASIBILITY STUDY

FY-71

BASED ON SUCCESS OF (1):

2. DISPLAY DESIGN

FY-72

3. PROTOTYPE FABRICATION

FY-73

4. PROCUREMENT

FY-74



INITIAL SCAN P.I. STATION - PLAN B

COMPARISON IMAGE DISPLAY

FUNCTION - TO COMPARE NEW IMAGE WITH PREVIOUS EOI IMAGE (A 1540  
LIGHT TABLE WILL ALSO STILL BE NEEDED IF IT IS NECESSARY  
TO COMPARE WITH

STAT

EQUIPMENT CANDIDATES - (SHOULD BE SAME AS PRIMARY IMAGE DISPLAY)

1. CATHODE RAY TUBE

SAME ADVANTAGES & PROBLEMS AS P.I.D. WITH ADDITIONAL PROBLEM  
OF STORAGE OF COLLATERAL IMAGERY

2. LIGHT VALVE - (SAME AS P.I.D.)

R&D REQUIREMENTS -

1. STUDY OF STORAGE METHODS FOR COLLATERAL IMAGERY. FY-71

BASED ON SUCCESS OF (1):

2. DISPLAY DESIGN FY-72

3. PROTOTYPE FABRICATION FY-73

4. PROCUREMENT FY-74



INITIAL SCAN P.I. STATION - PLAN B

INDEX MAP DISPLAY

FUNCTION - TO LOCATE EOI GROUND COVERAGE ON A MAP

EQUIPMENT OPTIONS -

MICROFORM MAP CHIP PROJECTOR WITH AUTOMATIC OVERLAY PLOT OF GROUND COVERAGE

ADVANTAGE: ELIMINATE MANUAL PLOTTING & PREPARATION OF COVERAGE OVERLAYS;

DISADVANTAGES: REQUIRES DEVELOPMENT OF DISPLAY EQUIPMENT (FEASIBILITY GOOD)

R&D REQUIREMENTS -

- |  |       |
|--|-------|
| 1. FEASIBILITY STUDY OF DISPLAY TECHNIQUES | FY-72 |
| 2. DESIGN                                  | FY-73 |
| 3. PROTOTYPE FABRICATION                   | FY-74 |
| 4. PROCUREMENT                             | FY-75 |

*Ref 1/5*

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INITIAL SCAN P.I. STATION - PLAN B

COLLATERAL GRAPHICS DISPLAY

FUNCTION: TO REVIEW TARGET GRAPHICS (P.I. KEYS, LINE DRAWINGS, ETC.)

EQUIPMENT OPTIONS:

1. MICROFORM GRAPHICS CHIP PROJECTOR

(SAME AS PLAN A(2)) SLIDE #8

2. CRT DISPLAY

ADVANTAGE: MIGHT BE COMBINED WITH MAP INDEX DISPLAY

DISADVANTAGES: ALL DATA WOULD HAVE TO BE DIGITIZED; LOWER  
RESOLUTION

R&D REQUIREMENTS:

1. PROCUREMENT MODIFICATION AND/OR DEVELOPMENT OF  
PROTOTYPE PROJECTOR

FY-72/73

2. PROCUREMENT

FY-74

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INITIAL SCAN P.I. STATION - PLAN B

COLLATERAL TEXT DISPLAY

FUNCTION: TO DISPLAY TARGET-RELATED COLLATERAL TEXT

EQUIPMENT CANDIDATES:

1. INTERACTIVE QUERY/RESPONSE CONSOLE (VIDEO DISPLAY)

ADVANTAGES: VERY RAPID ACCESS OF DATA BASE INFORMATION  
TO THE P.I.; MIGHT BE COMBINED WITH AUTOMATED  
REPORTING (BY THE P.I. INTO THE DATA BASE)

PROBLEMS: HIGH INITIAL COST

R&D REQUIREMENTS:

DEVELOPMENT OF Q/R CONSOLE

INITIAL SCAN P.I. STATION - PLAN B

REPORTING EQUIPMENT

FUNCTION: TO REPORT INITIAL TARGET SCAN RESULTS (FOUR REPORTING FUNCTIONS AS IN PLAN A)

EQUIPMENT CANDIDATES:

1. CRT TEXT CONSOLE WITH FORMATTED REPORTS

ADVANTAGES: VERY RAPID REPORTING; FEW SUPPORT PEOPLE REQUIRED; RAPID TRANSMISSION OF REPORTS

PROBLEMS: REQUIRES DEVELOPMENT OF EQUIPMENT & TRAINING OF INTERPRETERS

R&D REQUIREMENTS:

DESIGN AUTOMATED REPORTING SYSTEM

INITIAL SCAN P.I. STATION - PLAN B

COMMUNICATION EQUIPMENT

FUNCTION: TO FACILITATE COMMUNICATION WITH SUPERVISOR, P.I.  
SPECIALIST, ANALYST, ETC.

EQUIPMENT CANDIDATES:

AUDIO/VIDEO COMMUNICATION (INCLUDING IMAGE TRANSMIT)

ADVANTAGES: ELIMINATE PHYSICAL TRANSFER OF HARD COPY IMAGES  
FOR DECISION PURPOSES

PROBLEMS: HIGH COST; SECURITY; HIGH SPEED DATA LINK REQUIREMENTS

R&D REQUIREMENTS:

DEVELOPMENT OF HIGH DATA RATE C.C.T.V. SYSTEM

MAJOR MILESTONES	FY-71	FY-72	FY-73	FY-74	FY-75
PLAN A					
P.I. STATION DEFINITION					
EQUIPMENT DESIGN (OR SPECS)					
PROTOTYPE (DEVELOP. OR MODIFY)					
PROCUREMENT					
INSTALLATION					
TRAINING					
PLAN B					
VIDEO DISPLAY STUDY					
COLLATERAL IMAGE STORAGE STUDY					
P.I. STATION DEFINITION					
EQUIPMENT DESIGNS					
PROTOTYPE DEVELOPMENT					
PROCUREMENT					
INSTALLATION					
TRAINING					

VALUE OF PROPOSED EFFORT

- o PROVIDES A MEANS TO ASSURE THAT ALL NECESSARY MATTERS ARE CONSIDERED
- o EXAMINES FEASIBLE ALTERNATE APPROACHES ON COMMON TERMS
- o PRESENTS VALUE/COST OF ALTERNATE APPROACHES
- o ABOVE AS FUNCTION PERSONNEL REQUIREMENTS
- o ASSURES ADEQUATE IDENTIFICATION OF ACTIONS REQUIRED
  - PI STATION - CONFIGURATION & EQUIPMENT REQUIREMENTS
  - EQUIPMENT - RESEARCH & DEVELOPMENT
  - PERSONNEL - SELECTION & TRAINING
  - PROCEDURES - REVISION OR PREPARATION
  - SUPPORT FACILITIES - DEFINITION

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